

# MegaCrimp® Couplings: Any other coupling is a compromise.

MegaCrimp®



**Gates MegaCrimp Coupling**

## The "C" Insert starts round, stays round

During crimping, only the outside shell of a MegaCrimp coupling takes on the shape of the dies. Inside, the "C" insert stays round – like the hose. There's no "polygon effect." A comparison of cross-sections with our competitors' one-piece couplings shows how crimping can distort the hose tube which often contributes to the formation of leak paths, while MegaCrimp couplings remain round.



**Aeroquip**



**Parker**

The "polygon effect" is even more dramatic when the couplings are crimped without the hose!



**Weatherhead**



**Gates MegaCrimp Coupling**



**Aeroquip**



**Parker**



**Dayco**



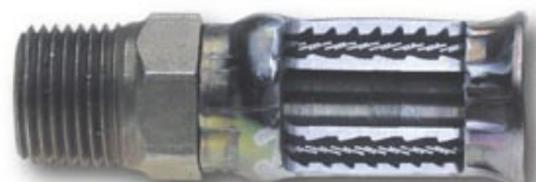
MegaCrimp has the optimum insertion force. Not too tight. Not too loose. You can feel it "hit bottom" when you insert it.



Once inserted, MegaCrimp stays inserted. It won't fall out during the crimping process.



The advanced design of the MegaCrimp tooth profile shown above "bites the wire" for better coupling retention unlike the competitive crimp shown below that relies on the compression of the rubber.



## MegaCrimp Couplings – with a crimp seal you can count on.

MegaCrimp couplings give you a leak-proof seal that's so innovative, it's patented\*. In fact, it surpassed one million impulse cycles during design testing.

\* U.S. Patent #5267758



**The patented "C" insert**

**The revolutionary MegaCrimp coupling.**

## The Secret: It's an inside job

It's what's inside the MegaCrimp coupling that makes it perform so well. The same "C" insert can be used on hoses with different constructions and wall thicknesses. In addition, the "C" insert assures an even distribution of crimping forces to form a concentric seal. That simplifies your inventory requirements since one size of MegaCrimp coupling can accommodate many different hose ODs, and on both one- and two-wire hoses. An additional bonus: MegaCrimp couplings are a fully qualified EN-performance coupling.

## Key Coupling Characteristics

MegaCrimp couplings set a new standard for hydraulic couplings. The unique "C" insert ensures "weep-free" concentric crimping to keep equipment and the environment clean.

### Key features

- Robust "bite-the-wire" crimp
- Versatile
- Low profile
- Full stem insertion
- Full-length crimp
- Easy-to-manage inventory reduces SKUs
- TuffCoat™ plating for 500% better corrosion resistance
- Fully qualified EN-performance coupling

## Crimps in all Gates crimpers

MegaCrimp fits all Gates crimpers, so all you need to know is the crimp setting, the crimp outside diameter and the die set.



## Power Crimp® 707

The most precise, yet simplest crimper made. The first of its kind with electronic digital readout to indicate crimp diameter setting. Crimps low-pressure return lines to high-pressure spiral hoses, from 3/16" to 1-1/4" I.D. Crimps straight and bent tube stems, plus 45 and 90 block types. Swage capable.

## MobileCrimp® 4-20

The latest in high-tech crimping. Portable and lightweight – only 57 pounds – but powerful enough to crimp up to 1-1/4" I.D. 4-spiral-wire hose. Great for jobs in the field. Two control options for versatility, plus digital accuracy for precise, consistent crimping.



Features 1/4" and 3/8" slotted dies for optimized crimp appearance.



# MegaCrimp couplings feature exclusive TuffCoat plating

## Nothing's better than TuffCoat plating from Gates.

This innovative technique gives our MegaCrimp couplings four times more corrosion resistance than before. That's 400 hours of red rust corrosion protection when subjected to rigorous SAE-J516 and ASTM-P-117 salt-spray conditions. This 500+% improvement over the 72-hour SAE standard proves Gates not only raised the bar on corrosion resistance – we've set the standard.



Gates TuffCoat

Images taken at random stages of salt spray testing show that Gates TuffCoat plating significantly outperforms competitive products in its ability to protect against red corrosion. Note: the white seen on the couplings is salt residue which is not corrosive.

# MegaCrimp

## The versatility of MegaCrimp couplings

Gates designed the MegaCrimp coupling to work in concert with our existing products. It's an unbeatable combination. MegaCrimp handles our complete line of wire braid hoses. Consider:

**M3K Mega3000®** Every size meets 3,000 psi working pressure. Half SAE bend radius reduces required hose length up to 47 percent. SAE 100R9 performance in 3/4" and 1" sizes. MegaCrimp couplings available for hoses in sizes 1/4", 3/8", 1/2", 3/4" and 1".

**M4K Mega4000®** Meets one-half SAE100R1, 100R2 and 100R9 bend radius, plus SAE 100R9 performance on 1/2" sizes and SAE 100R12 pressure on 3/8" to 3/4" sizes. All sizes have 4,000 psi working pressure.

**GT7 and GT8** A new generation of crimpable thermoplastic hose that meets SAE 100R7 & SAE 100R8.

**G1 and G2** For hydraulic oil lines with working pressures of 1,625 to 5,000 psi. Meets or exceeds SAE 100R2AT, SAE100R1AT and U.S. MSHA 2G Flame Resistance Acceptance Designation. Available in 1/4", 3/8", 1/2", 5/8", 1" and 1-1/4" I.D.s.

**M2T MegaFlex®** For 2-wire applications. Bends twice as tightly as SAE-rated hose. Meets 100R2 working pressures. MegaCrimp couplings are available for hoses in sizes 1/4", 3/8", 1/2", 5/8" and 1".

**GMV MegaVac®** For return, suction and vacuum lines. One-half SAE 100R4 bend radius. Flexible and lightweight. MegaCrimp couplings are available in 3/4", 1" and 1-1/4" I.D.s.

## Solving your problems with quality products and service

The men and women at Gates pride themselves on identifying and meeting customer needs. That's how Gates got to be a leader in hydraulics – by listening to our customers and responding in a timely manner with products that are unequalled in the industry. At Gates, we also focus on service. Just ask. We're ready to help you select the proper hose and couplings or design an entire hydraulic system to meet your specific application.

Refer to **Gates Crimp Data Manual #35019 (428-7365)** when selecting hose and coupling combinations. Also available electronically at [www.gates.com/ecrimp](http://www.gates.com/ecrimp).



The World's Most Trusted Name in Belts, Hose and Hydraulics.

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## A numbering system that makes sense

Gates MegaCrimp couplings carry a part number that makes coupling identification easy.



MegaCrimp coupling specifications and detailed information listed in the **Gates Hydraulic Catalog #35093 (431-2080)**.

35042-K  
428-7372  
474-2002 G  
7/04  
Printed in U.S.A.

When you need a leak-proof seal, get the best.



Gates  
MegaCrimp®  
Couplings

# MegaCrimp Coupling



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